

ABSTRACT OF THE DISCLOSURE

An integrated device for non-invasive analyte measurement is described herein. In typical operation, the glucose measurement device is self-normalizing in that it does not employ an independent reference sample in its operation. The device uses attenuated total reflection (ATR) infrared spectroscopy for glucose measurement from the user's skin surface. The device also includes a pressure and/or user identification sensor(s) to ensure that an authorized user is utilizing the device. The identification sensor may utilize capacitive or infrared detection of biometric identification features, such as fingerprints, for comparison to a stored value indicative of an authorized user. The device may be configured such that verification of a user's identity may be a prerequisite to use and/or activation of the device.